

NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-101
Revised 1-1-55

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-13-77	
Company Maralo, Inc.		Connection None	
Well Wildcat		Formation Morrow	
Completion Date 4-13-77	Total Depth 10608	Plug Back TD 10546	Elevation 4298 Gr.
Cas. Size 5.5	Wt. 17#	d 4.892	Set At 10608
Perf. Size 23/8"EUE	Wt. 4.7	d 1.995	Set At 9854
Type Well - Single - Rodenhead - G.G. or G.O. Multiple Single		Packer Set At 9850	
Producing Thru Tubing	Reservoir Temp. °F 177 @	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
L 10163	H 10163	G _g .696	% CO ₂ 0
		% N ₂ 0	% H ₂ S 0
		Provor	Meter Run X
			Taps
Farm or Lease Name Chavelea Carson		Well No. 1	
Unit F	Soc. 10	Twp. 9S	Rge. 31E
County Chaves		State New Mexico	

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI											
1.	2"		1.5"	600	8"	85°	2285	63°			
2.	2"		1.5"	600	29"	80°	2084	73°			3 Hrs.
3.	2"		1.5"	600	42"	79°	2004	72°			2 Hrs.
4.	2"		1.5"	600	92"	92°	1905	73°			2 Hrs.
5.							1724	79°			2 Hrs.

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.76	70.04	613.2	.9768	1.199	1.071	1121
2.	12.76	133.35	613.2	.9813	1.199	1.065	2132
3.	12.76	160.48	613.2	.9822	1.199	1.065	2568
4.	12.76	237.52	613.2	.9706	1.199	1.060	3737
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	P.S.I.A.	P.S.I.A.
1.	.92	533	1.37	.871	13396	58.0° @ 60° F	.696	X X X X X	669	388	662	457
2.	.92	540	1.39	.881								
3.	.92	539	1.39	.881								
4.	.92	552	1.42	.890								
5.												

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1.	1987.6	3951	1331	
2.	1867.0	3486	1796	
3.	1796.4	3227	2055	
4.	1651.2	2726	2556	
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.0665 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0665$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7723$$

Absolute Open Flow 7723 Mcfd @ 15.025 Angle of Slope 45 Slope, n 1.00

Remarks:

Approved by Commission: Conducted By: J. P. Stegall Calculated By: H. L. Hagler Checked By: H. L. Hagler

RECEIVED

APR 29 1977

U.S. CONSTITUTION COMM.
HOBBS, H. W.